XXV. Botanical Characters of fome Plomts of the Natural Order of Myrti. By fames Edevard Smith, M.D. F.R.S.P.L.S.

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\text { Read OEtober 4, } 1796 .
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THE natural order of Myrti, $\mathfrak{F u f}$. Gen. $\hat{\jmath}^{22}$, is compofed of a number of very clegant fhrubs and trees, the genera of which have not been clearly defined; nor, indeed, do the limits of this family feem well underfood by the beft writer on natural orders, M. de Juffieu.

Thefe plants agree in having an arborefcent ftem, the wood of which is generally hard, and of flow growth. Their leaves are fimple, for the moft part entire, and evergreen ; often dotted with clear refinous fpots, and almoft always more or lefs aromatic, fometimes aftringent. Calyx monophyllous, urceolate, or tubular, with feveral, generally five, teeth, the body of the calyx being permanent, and invefting the fruit (in fome inftances pulpy), though the teeth are very frequently deciduous. Petals equal in number to the teeth of the calyx, alternate with them, and inferted into the rim juft within them. Stamina inferted into the fame rim within the petals, numerous, rarely only equal to the petals in number, or about twice as many; for the moft part very long, but, in fome inftances, fhorter than the corolla. Germen in the bottom of the calyx fimple. Style one. Stigma undivided. Fruit cither a berry
$2 j 0 \quad$ Di. Smitil's Botanical CbaraEters of fome Plamts
berry or capfule, formed of the body of the calyx, or invefted with it, confiting of one or more cells, each cell containing one or more feeds. White is the prevailing colour of the flowers. I know no inftance of an inclination to blue.

Such is the general idea of the order : there are, however, fone exceptions. Eucalyptus of L'Heritier, and Calyptrantbes of Swartz, have no proper petals, but in their ftead a fimple operculum, or cover. Pbiladelfous has a deeply divided ftyle, as well as dentated, deciduous leaves; in Decumaria, and Efcallonia alfo, the leaves are not entire. This laf, and two other genera (Backea and Memecylon) with which M. de Juflieu' was not practically acquainted, he has placed in his preceding order of Onagre, becaufe they have famina definite in number, that is, as many, or, at moft, twice as many, as the teeth of the calyx. But I am perfuaded, if he had feen all thefe, he would have defined his order of Myrti fo as to admit them, which is ventured upon in the character given above:

It is not my prefent intention to treat of every genus in this family, nor even to enumerate them all. The difficulty of arranging fome beautiful kinds from New South Wales firft led me to ftudy the order, and to thefe I fhall principally confine my remarks. They belong to the following 9 genera.

1. Imbricaria. Jungia of Gartner.
2. Bxckea of Linnous.
3. Leptofpermum of Forfer.
4. Fabricia of Gartner.
5. Metrofideros of Banks and Gertner.
6. Melaleuca of Linnceus.
7. Myrtus of all authors.
S. Eugenia of Micheli, Linnous, and Jufleu.
S. Eucalyptus of L'Heritier.

The order in which I have wow enumerated them accords, as nearly as can be, with their natural affinity to each other; but they belong to various claffes in the artificial fyftem of Linnxus, according to which I fhall now give their generic characters.

## I. IMBRICARIA.

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\begin{aligned}
& \text { Jungia. Gerin. Sem. v. I. I75.t. } 35 \cdot f \cdot 5 \text {. } \\
& \text { Pentandria Monogynia, next to Efcallonia. }
\end{aligned}
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Char. Gen.-Petala 5. Stigma capitatum. Capfula calyce tecta, bilocularis, polyferma.

Gxrtner fufpected this might not be a diftinct genus from the Efcallonia of Linn. Suppl. which he had never feen. But it differs effentially in having a capfule inftead of a berry, not to mention many other particulars. See Plant. Ic. ex Herbario Linncano, tab. 30 $\mathrm{E}_{3} 3 \mathrm{~T}$.

In the unripe germen Gærtuer found 2 cells, but of thefe one is often abortive. This is an inftance, among many others, of the propriety of confidering the fruit in an early ftate, when we form generic characters, as the natural number of the parts is often moft certainly to be learned in that ftate. By this rule, the Linociera of Schreber will, if I miftake not, be found not diftinct from Clionantbus.

Gærtner mentions two fpecies of his Jungia, of which I have received one from New South Wales-that reprefented in his plate. In my fpecimens, the upper leaves, calyx, and petals, are crenate, which he has not expreffed, but which is an additional mark of its affinity to Efcallonia, the leaves of which are more or lefs ferrated;
Yol. III. L I
an unufual circumftance in this natural order. I bave alfo another not mentioned by him:

With refpect to the name, there being already a plant of a very dittinct genus infcribed to $\mathcal{F}$ ungius in the Supplementum Plontorum of Linnæus, it becomes neceffary to give this of Gærtner another denomination. Profeffor Gmelin has, indeed, called it Mollia; but, as I am ignorant of the derivation of that name, I purpofcly change it. However eftimable this writer may be in other branches of fcience, he can claim no rank as a botanift. The miftakes pointed out by Mr. Dryander in the fecond volume of our Tranfactions, and by M. Lamarck in thofe of the Natural Hiftory Society at Paris, are but a fmall part of his innumerable errors. Pcrhaps no book in any fcience contains fo many. The zoological part of his Syftema is far lefs faulty. In that department he may be confidered as authority, till fome original author appears; but goodnature would wifh to forget his attempts in Botany. I cannot help upon this occafion recommending, that only original authors in Natural Hiftory hould have any authority to give permanent names. By original authors I mean thofe who have feen and examined every object which they profefs to defcribe or enumerate, in contradiftinction to compilers of the obfervations or nomenclature of others.

In preference therefore to Mollia, this genus is named Imbricaria, in allufion to its imbricated foliage. A farther reafon for my choice of this name is to abolifh the Imbricaria of Gmelin, taken up by him from Juffieu, which I know from original fpecimens to be the identical Minufops Kauki of Linnæus, of which Juffieu, after Commerfon's manufcripts, made a diftinct genus on account of its fruit having eight cells, and as many feeds; but Commerfon obferved, that four or more of thefe were often abortive; and, on the other land,
hand, Rumphius tells us the Mimufops has often as many as three or four perfect feeds. It is probable, therefore, that the germen has cight cells and eight feeds, moft of which are generally abortive ; another inftance of the ncceffity of ftudying that part in all its progreffive fates.

The fpecies of Imbricaria are:

1. Imbricaria crenulata, foliis obovato-cuneiformibus apicem verfus crenulatis, petalis calycibufque denticulatis. Jungia imbricata. Gartn. loc. cit.
2. I. ciliata, foliis triquetro-linearibus calycibufque ciliatis, germine pentagono.

To thefe might be added the tenella of Gærtner, which not having fufficiently examined, I for the prefent omit. All are natives of New Holland, or New South Wales.

## 2. B.ÆCKEA Linn.- Fuf. Gen. 32 1.

Octandria Monogynia, near Fuchfia and Ximenia.
Char. Gen. Petala 5. Calyx 5-fidus. Capfula tri- vel quadrilocularis, polyfperma, calyce tecta.

Juffieu firft formed any tolerably juft conjectures concerning the natural family of this genus, to which the defcriptions of Linnæus and Ofbeck by no means lead; nor, indeed, could it have eafily been referred to the myrtle tribe, without the increafed knowledge of that order which we have derived from the plants of New Holland. There is no doubt; however, that Backea belongs to the Myrti, and not to the Onagre of Juffieu, having the clofeft

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affinity in character, habit, and aromatic qualities, to Leftofpernum ; from which it differs only in having but eight ftamina, inftead of a large indefinite number, which in this order is a fufficient generic diftinction; efpecially as the number is very conftant in all the flowers I have examined of the Chinefe, as well as the New Holland, fpecies, though I have not often found two of the ftamina (as Linnæus defcribes them) fhorter than the reft.

1. Beckea frutefcens, foliis oppofitis muticis, dentibus calycinis. membranaceis colcratis.
B. frutefcens. Limn. Sp. Pl. 5 14. Oß. Refa, 231. t. I. Voyage, v. 2. 373. t. I.
B. chinenfis. Gartn. Sem. $15 \%$.t. 3 I.

Difcovered in China by Ofbeck.
2. B. denffolia, foliis quadrifariam imbricatis obtufis mucronulio reflexo, dentibus calycinis foliaceis.

Sent from Port Jackfon, New South Wales, by Mr. White.
3.LEPTOSPERMUM Forf. Gen. 36.t. 36. fig. f-1. Jufl. Ger. $3^{2} 3^{\circ}$. Gartn. Sem. t. 35.

Icosandria Monogynia, after Pbiladelpbus.
Char. Gen. Calyx 5 -fidus, femifuperus. Petala 5, unguiculata, ftaminibus longiora. Stigna capitatum. Capfula 4-vel 5-locularis. Semina angulofa.

To this genus naturally belong many fhrubs which were referred by Dr. Solander to Pbiladelpbus, and appeared under that genus
genus in the Horius Kerwenfis. Forfter confounded with them, under the name of Leplofpermum, another moft diftinet genus, the Metrofideros of Barks and Solander. Gertner firft feparated all thefe, and really underftood the genus of which we are now treating, though he did not find out its genuine effential character, the capitate fligma, which (as well as the fhortnefs of the ftamina) clearly diftinguifhes it from Metrofideros. With Pbiladelpbus it has no refemblance in habit, nor fcarcely any botanical characters in common. The excellent Dr. Solander would certainly never have referred thefe plants to that genus, had he examined the common Pbiladelphus itfelf, which is clearly and ftrikingly diftinguilhed by its more or lefs deeply quadrifid ftyle and fimple figmas, without adverting to the broad bafe of the petals, or the differences pointed out by Gærtner in the fruit. Even Tournefort's figures thew the characters above mentioned, though the ftyle is commonly more deeply divided than he reprefents it, infomuch that the flowers have often actually four ftyles. Duhamel defcribes them fo, giving a very incorrect reprefentation of thefe ftyles, with capitate ftigmas (which ought to be fimple), by the fide of his copy of Tournefort's figure, to which his has as little refemblance as can well be.

The younger Linnæus and Profeffor Schreber have confounded Leptoppermum, as well as Metrofideros, with Melaluuca, with which the latter of the two only has any great natural affinity. Dr. George Forfter has fallen into the fame error in his Prodromus publifhed in 1786.

The fpecics of Leptoppermum are much lefs cafy to define than its generic character. Many of them are to be feen in the Englifh gardens, and feveral have often flowered. The following attempt to characterife fuch as are diftinclly known to me, may ferve till we have more light upon the fubject; there being feveral more fpe-
cies in the gardens, which I have not yet feen in fufficient perfection to difcriminate them.

1. Leptosperinum foparium, foliis ovatis mucronatis obfoletè trinerviis, calycibus glabris; dentibus membranaceis coloratis.
L. fcoparium. Forf. Gen. N. 6.
L. fquarrofum. Gartn. Sem. 174.t. 35.

Melalcuca fcoparia. Limn. Suppl. 343. G. Forf. Prod. 37.
Philadelphus fcoparius. Ait. Hort. Kew. v. 2. 156.
This is the moft commonly cultivated fpecies, and flowers continually. I have received it from the garden of Meffrs. Lee and Kennedy, by the name of Pbiladelphus floribundus, along with three other fpecimens, which I fufpect to be varieties of this. They were called P. rubricaulis, P. rubriforus, and the " original P. aromaticus."

The variety $\beta$ of Hort. Kew. is, according to Sir J. Banks's Herbarium, a very flight one, with fhorter and broader leaves. This is, however, the identical Lept. fquarrofum of Gærtner.

What P. aromaticus of Hort. Kcw. is I have not determined, and muft therefore omit it for the prefent.
2. L. flavefcens, foliis lineari-1anceolatis obtufis enerviis, calycibus glabris: dentibus membranaceis coloratis nudis.

The flowers appear to be of a fine yellow in the dried fpecimens. I have not feen this fpecies living.
3. L. attenuatum, foliis lanceolato-linearibus acutis trinerviis, calycibus fericeo-villofis: dentibus membranaceis coloratis nudiufculis.

Neither have I feen this living. The flowers feem to be white, and generally grow two together on fhort flower-ftalks, which are filky like the calyx.
4. L. lanigrum, foliis obovato-lanceolatis trinerviis, calycibus fericeo-villofis: dentibus foliaceis perfiftentibus.
I. trinerve. White's Voyage, 229. tab.

Philadelphus laniger. Ait. Hort. Kew. v. 2. Is6.
Myrtus Amboinenfis montana. Rumph. Amb.v.2.t. 18.?
This fpecies varies with fmooth and downy leaves, and the calyx is fometimes merely filky, fometimes clothed with long and thick projecting down. Some of its varieties are in the gardens, efpecially what I take to be the $\beta$ of Hort. Kere. which has fmall downy twifted leaves, with a little recurved point, and is commonly called Pbiladelphus pubefcens. It may be a diftinct fpecies.
5. L. parvifolium, foliis obovatis enerviis, ramulis calycibufque pilofis: dentibus membranaceis coloratis.
Of this I have only one fpecimen, nor have I feen it alive ; but it is very diftinct.
6. L. arachnoideum, foliis fubulatis pungentibus, ramulis hirtis, calycibus dentibufque villofis.
L. arachnoides. Gartn. v. I. 175.t.35.

I have but a fingle fpecimen of this fpecies, which agrees well with Gærtner's figure and original fpecimen at Sir Jofeph Banks's.
7. L. juniperinum, foliis lineari-lanceolatis pungentibus, ramulis fericeis, calycibus glabris: dentibus membranaceis coloratis nudis.

This is in the gardens, if I miftake not; but I have not feen the nowers frech. Mr. Fairbairn gave it me by the name of Phil. diofmifolius.
S. L. baccatum, foliis lineari-lanceolatis pungertibus, ramulis hirtis, calycibus glabris : dentibus membranaceis coloratis pubefcentibus, capfula baccata.
This is a low depreffed thrub. The flowers feem to be yellow, and, by the appearance of the dried fruit, it mult be very pulpy. I have received from Meffrs. Lee and Kennedy a fpecimen which, for want of the fructification, I fcarcely know whether to refer to this or to L. arachnoideum, but it rather appears to be that fpecies.
9. L. ambigunm, foliis linearibus apice recurvis, calycibus glabriufculis: dentibus foliaccis lanceolatis nudis, faminibus corolla longioribus.

Of all the fpecies I have examined this is the only one that has the ftamina longer than the corolla, which is a character of Metrofideros; but as it differs from that genus, and agrees with LeptoSpermum, in the much more important character of the capitate ftigma, as well as in habit, I do not hefitate to which to refer it. This fpecies flowered magnificently in the garden of George Hibbert, Efq. F.L.S. this fummer. The flowers are white.

All thefe 9 fpecies I have received from New South Wales.
Perhaps L. virgatum of Forfter, (Mclaleuca virgata of Limn. Suppl.) ought to be added to the lift of known fpecies; but the two fpecimens in the Linnæan Herbarium, which are all I have feen, are fcarcely fufficient to fatisfy my doubts. The famina, as far as I can difcover, are regularly ten. If the fruit therefore be unilocular or bilocular, it may be an Inbricaria, with a double number of
ftamina to the other fpecies. If the capfules fhould be found to have 3 or 4 cells, I fhould incline to reckon it a decandrous Breckea, with which genus its oppofite leaves, as well as the fize and appearance of the flowers, agree; whereas every Leprofpermum that I know of, has alternate leaves. It nuft be left for future confideration.

> 4. FABRICIA. Gertn. Sem. t. 35 .
> Icosandria Monozynia, after Leptofpermumb.

Char. Gen. Caly: 5-fidus, femifuperus. Petala 5, feffilia, Stigma capitatum. Capfula multilocularis. Semina alata.

Gxitner enumerates two fpecies of Fabricia, of which I have received only one, , his lavigata, from-New South Wales, which is alfo plentiful in the gardens about London, but has never yet flowered. Neither have my fpecimens any flowers, though they abound with feffle axillary capfules, fome of which have the ftyle upon them. The petals being feffile (without ungues) is the only part of the generic character which I have borrowed from Gærtner. The numerous cells of the fruit, from $\delta$ to 10 , and efpecially the winged feeds, fufficiently diftinguifh this genus from Leptofpermum, to which it is next akin.

The leaves of F. levigata, are alternate, obovate, fmooth, very obfcurely 3 or 5 -nerved, of a light glaucous green. The teeth of the calyx are of a triangular figure, whereas in F. myrtifolia they are nearly orbicular. This laft-mentioned fpecies is alfo twice as large as the other in all its parts.
5. METROSIDEROS. Banks. M/s. Gertn. Scm. t. 34.f.2.

Icosandria Monogynia, after Fabricia.
Char. Gen. Calyx 5-fidus, femifuperus. Pctala 5. Stamino longiffima, exferta. Stigma fimplex. Capfula 3 vel 4 -locularis.
That this is a moft diftinct natural genus from Leptofpermum, as above defined, there can be no doubt, though fome great botanifts have united them. Sir Jofeph Banks, however, and Dr. Solander, were well aware of their difference, and characterized Metrofideros by its very long famina. The ftigma being fimple and fmall, not capitate nor depreffed, fcarcely dilated, I beg leave to propofe as a very certain and conftant mark of diftinction. The habit, moreover, is totally different from Leptofpermum, and agrees with that of Melaleuca; at leaft this is the cafe with fuch fpecies as have alternate leaves, and thofe with oppofite ones have no refemblance to Leptofpermum.

The petals are concave, nearly feffic, deciduous, generally lefs coloured than the ftamina. The capfule has moft generally three valves, and as many cells, rarely four. I believe it might fafely be defined trilocularis abfolutely, but I have mentioned the number four in deference to Gærtner, till I can determine and examine all his fpecies, which are very obfcure. His gummifera is an Eucalyptus, and fome of his others are very doubtful. The fpecies of this genus, defcribed as Melalence by the younger Linnæus and Dr. G. Forfter, are alfo very much confufed, thefe authors having mutwally mifunderftood each other fo often, and formed their definithins fo loofely, that, with moft of their original named fecimens before
befere me, I can hardly clear up every doubt; nor can I, at prefent, determine how many of Forfter's fpecies are among Gxrtncr's. The following thinteen are certainly diftinct, and all in my herbarium.

## * Foliis oppofitis.

I. Metrosideros bifpida, foliis oppofitis bafi cordatis amplexicaulibus, ramulis pedunculis calycibufque hifpidis.
This is a very magnificent fpecies, eafily diftinguifhed by its broad feffile oppofite leaves, and hifpid branches. The flowers are ycllow, with wide-fpreading ftamina, and grow in umbels, many of which unite to form a large terminal corymbus, rough with redbrown hairs, like thofe of the Robinia bippida. Young plants of this Metrofideros are to be feen in molt collections about London, but none has yet flowered.
2. M. foribunda, foliis oppofitis petiolatis ovato-lanceoldtis, panicula brachiata, pedicellis umbellatis.
The flowers are fmaller than thofe of the laft, and appear to be white. The panicles are formed of feveral branches croffing each other; and terminating in little umbels. Sometimes the fower-ftalks are hifpid, fometimes fimooth.
3. M. cofata, foliis oppofitis petiolatis lineari-lanceolatis acuminatis obliquis, panicula brachiato-decompolita, pedicellis fubumbellatis.
M. coftata. Gartn. Sem. v. I. 17 1. t. 34.f.2.

This may be known from the preceding by its narrower, longer, more rigid and thining, oblique or falcated leaves. The panicle. is more irregularly and repeatedly branched; its utmoft ramifications
but imperfectly umbellate. The flowers are much larger, yellowifh white. Both kinds are ftrangers to our gardens.

Thefe three fpecies were found at Port Jackfon, New South Wales, by Mr. White.
4. M. diffufa, foliis oppofitis ovatis venofis utrinque glabris, paniculis axillaribus terminalibufve, pedicellis oppofitis. Melaleuca diffufa. Forf. Prod. 37, ex defcr. ——— lucida. Limm. Supp!. 342.
Gathered in New Zealand by Meffrs. Forfter. Of this I have feen only one fpecimen, which was given to Linnæus by Dr. Sparrman for the Leptofpermum collinum of Forfter. It is, however, totally different from other fpecimens in the Linnæan Herbarium from Fortter himfelf, marked collinum, and which perfectly anfwer to the defcription. This can be no other than the Melaleuca diffufa of Forfter's Prodromus.
5. Mi villofa, foliis oppofitis ovatis venofis fubtus pubefcentibus, thyrfis axillaribus terminalibufve oppofitis villofis, floribus feffilibus confertis.
Melaleuca villofa. Linn. Suppl. $34^{22}$.
——— æftuofa. Forf. Prod. 38.
Leptofpermum collinum. Forf. Gen. N. 2. Metrofideros fpectabilis. Gortn. Sem.:v. I. 17 2. t. $34 . f \cdot 9$. ?
A native of O-Tabeiti. We have it not in the gardens.
The ftem is much branched. Young branches and backs of the younger leaves downy; the flower-ftalks, bracteæ, and calyx, very much fo. Flowers red, very ornamental, ftanding at the end of each branch in a pair of fmall denfe panicles or thyrfa, which are truly
truly axillary and oppofite, though the branch, terminating abruptly, is not protruded beyond them.
6. M. florida, foliis oppofitis obovato-oblongis venofis glabris, thyrfo terminali, calycibus turbinatis nudis.
Melaleuca florida. Forf. Prod. 37.
Leptofpermum fcandens. Forf. Gen. N. i.
A native of New Zcaland, not yet introduced into our gardens.
The branches are long, each terminated by a thyrfus of large yellowifh flowers, whofe calyx is remarkably lengthened out, almof as in the clove.' The leaves are fmooth. The flower-ftalks and calyx farcely perceptibly filky, with clofe-preffed hairs.
7. M. glomulifera, foliis oppofitis ovatis reticulato-venofis fubtus pubefcentibus, capitulis̉ lateralibus pedunculatis bracteifque tomentofis.

Gathered near Port Jackfoin by Mr. David Button. It is a tree, with round oppofite branches. Leaves oppofite, on Chortifh downy footftalks, ovate, entire, a little waved, reticulated with numerous veins, clothed with fhort foft down on the under fide. Flowers greenifh yellow, cluftered in little globular heads, which ftand on fimple downy foot-ftalks about an inch long, growing laterally, (moftly oppofite to each other) juft above the infertion of the uppermoft leaf-ftalks and contrary to them.' Each head of flowers is accompanied by a pair of oblong downy bractex, and the calyx is alfo downy.

This fpecies is but flightly aromatic. It is faid to be very rare.
S. M. augufifolia, foliis oppofitis lineari-lanceolatis nudis, pcdunculis axillaribus umbellatis, bracteis lanceolatis glabris deciduis.
Myrtus anguftifolia. Linn. Nont. x. 74.
A native of the Cipe of Good Hope. The original fpecimen in the Linnwan Herbarium was fent by Profeffor Schrcber, and, having no fruit, might eafily be miftaken for a Myrtus. Liunxus afterwards received another fpecimen from Profeffor Thunberg, laden with ripecapfules in the lower part of the branches, and budding flowers above. This he did not perceive to be his Myntus angufifolia, but, on examination of the capfules, determined it a Leptofpermunn (which it is, as that genus ftands in its firft author Forfter'), and wrote that name on the back of the paper not long before his death, as appears by the hand-writing. His fon and fucceffor, lefs cautious, placed this fame fpecimen in the herbarium, writing upon it Myrtus angufifolia, without any remark. I find it upon examination a true Metrofideros. The famina are diftinet, thrice as long as the petals, and twice as long as the ftyle, which has a perfectly fimple ftigma. Calyx-teeth deciduous.

The ripe capfules precifely refemble thofe in Gertner's figure of Melaleuca fuaveolens, but that is, in other refpects, a very different plant.

Burman's fynonym (Flo: Afr. 237.t. 83.f.2.), quoted by Linnæus, can hardly belong to this plant, unlefs his defcription be very bad; for he calls the fruit a black berry, with one cell and a fingle fecd.

The dried leaves of this species are tinged with the fame metallic green that is obfervable in thofe of Metrofideros bifpida, and fome other New Holland plants of this order.

## ** Foliis alternis.

9. M. ciliata, foliis fparfis fub-oppofitis ellipticis obtufis coria*ceis bafi fubciliatis, corymbis terminalibus pilofis. Melaleuca ciliata. Forf. Prod. 38. Leptofmermum ciliatum. Forf. Gen. N. 3 .

Gathered by Meffrs. Forfter in New South Wales? (Nover Caliodonia). Not yet introduced into the Englifh gardens.

The leaves are remarkably rigid, thick, and concave, their margin reflexed, like thofe of Celafrus lucidus, but lefs thining; whitifh, and reticulated with tranfverfe veins beneath, and marked with a fraight central nerve.. It is extraordinary that Dr. Forfter characterizes them as without nerve or veins. Thofe parts may perhaps be lefs vifible in recent fpecimens. The bafe of moft of the leaves is ciliated with long fpreading hairs, like thofe on the young branches, flower-ftalks, calyx, and even petals. The flowers are large, handfome, deep-red, but few together, in a terminal corymbus or umbel. Fruit large, depreffed, projecting in three lobes much: above the rim of the calyx.
ra. M.. linearis, foliis fparfis linearibus canaliculatis acutis ri-gentibus, floribus lateralibus confertis feffilibus. Melaleuca linearis.. Schrader Sert. Hannoveran. 19.t. II..

This is not uncommon in the Englificollections; but has not yet flowered here, though it has at Hanover. The leaves are very long, narrow, fomewhat pungent, rigid, and harfh. There is a variety with femicylindrical leaves, more rough on the back than the more common kind. The flowers furround the branches in a
long cylindrical feffile clufter. Their petals are green, often nightly downy; ftamina very long, crimfon. Capfules round, depreffed; when old crowding each other into an angular form.
II. MI. lanceclata, foliis alternis lanceolatis mucronatis, floribus lateralibus confertis feflilibus pubefcentibus.
M. citrina. Curt. Mag. I. 260.

A beautiful thrub, now very common in every greenhoufe, which firft flowered feveral years ago at the Marchionefs of Rockingham's, but not in perfection; neither docs Mr. Curtis's figure give a good idea of the natural fituation of its bloffoms, which very nearly refemble thofe of the preceding.

It is totally unaccountable to me how this plant came by the name of citrina, there being nothing about it approacliing to a lemon-colour, except the pollen, which would hardly have occafioned fuch a denomination. Sometimes I have imagined it might allude to a refemblance in the appearance or fmell of the leaves to a lemon tree, which however does not exift; and if it did, the name ought to have been citrea. I would never change a name that has been generally in ufe, whether rublinhed or not ; but this is too prepofterous to be retained.
12. M. Salignt, foliis alternis lanceolatis utrinque attenuatis mucronatis, floribus lateralibus confertis fefflitibus glabris.

This is diftinguithed from the preceding by its tapering lefs rigid leaves, fmaller yellowith flowers, the calyx and petals of which are quite fmooth in all their parts, neitier downy nor fringed. It is not in the gardens. I had a fufpicion this might be the M. vimimalis of Gærtner; but the original fpecimens of that fpecies at Sir Jofeph

Jofeph Banks's are very different, having linear-lanccolate leaves, not tapering at the ends, and downy flowers.

Rumphius's tab. 17.f.2. vol. 2, has fome refemblance to this plant, but he defcribes his as very aromatic, which ours is not at all.
13. M. capitata, foliis fparfis obovatis mucronulatis, capitulis terminalibus, calycibus ramulifque pilofis.

This differs widely in appearance from all the other fpecies. $^{2}$
The leaves are fcarcely one-third of an inch in length, very flightly veined, obfolctely crenate, or rather rough in the margin with minute points. Flowers on fhort flower-ftalks, in little terminal heads. Calyx tubular, very hairy, with foliaceous permanent teeth. Petals fmall, purple. Stamina of the fame colour, and about thrice as long as the corolla. Germen very fmall, in the bottom of the calyx. Style equal to the ftamina; the ftigma a little enlarged, but not capitate.

I have not feen the fruit in any degree of maturity, but there can be no doubt of its being that of a Metrofideros, as I have detected the rudiments of three fimall valves. The form of the flower is much like the Lytbrum tribe. The leaves are punctate, though fcarcely aromatic.

This is not, to my knowledge, in the gardens. I am indebted to Mr. White for fpecimens of it, and the three preeeding, from New South Wales.
6. MELALELCA Limn.-Garm. Sem. t. 35. Fuf. Gen. 323.

## Polyadelphia Poljandria.

Char. Gen. Calyx 5 -fidus, femifuperus. Petalu j. Filamenta: Vol. III. $\mathrm{N} \mathrm{n} \mathrm{multa}$,
multa, longiffima, connata in $5^{\circ}$ corpora. Stylus 1. Capfula 3-locularis.
Perhaps this genus is not naturally diftinct from the laft, the union of the filaments being all that diftinguifhes Melaleuca; for in the reft of the fructification, as well as in habit, they agree. Accordingly the younger Linnæus, the two Forfters; and Schreber unite them into one, and Juffieu feems inclined to do fo. Unfortunately thefe great authorities fall to the ground, and their opinion can by no means be confidered as of any weight in this cafe, as we find them confounding with the above the true genus of Leptofpermum, than which nothing can be more difinct, in every circumftance that characterizes a natural or astificial genus. Gertuer, fo little attentive in general to any thing but the fruit, preferves all the three feparate; though feveral of his fpecies of Metrofideros, which he knew only in fruit, prove to be Melalcucre.

The following eleven very diftinet fpecies of Melaleuca I have examined in flower, and am therefore certain of their genus.

## * Foliis alternis.

1. Melaleuca Leucadendron, foliis alternis lanceolatis acuminatis falcato-obliquis quinquenerviis, ramulis petiolifque glabris.
M. Leucadendron. Linn. Mant. 1. Io 5. Suppl. $342 \alpha$. Arbor alba. Rumplo. Anb. v. 2. 72. t. 16.
This tree is a native of fome parts of the Eaft Indies, and from it is diftilled the green aromatic oil called Cajeput, from Caju Puti, a white tree, the Malay name of the plant; hence Linnrus gave the name of Leucadrendon to this fpecies.
2. M. viridiflora, foliis alternis elliptico-lanceolatis coriaceis quinquenerviis, ramulis petiolifque pubefcentibus.
M. viridifora. Gartn. Sem.v. 1. 173. t. 35.
M. Leucadendron $\beta$. Linn. Suppl. 342.

Unqueftionably a very diftinct fpecies from the preceding, with which the younger Linnxus confounded it. The leaves are much more thick and rigid, ftraight, not falcated, nor fo much pointed, of a lighter colour, with generally five, but fometimes feven nerves. The footftalks and younger branches are downy, which is not the cafc in M. Leucadendron.

This grows in New South Wales. The flowers are pale yellowih green.
> 3. M. laurina, foliis alternis obovato-lanceolatis uninerviis, pedunculis axillaribus dichotomis pubefcentibus.

Specimens of this were brought to Sir Jofeph Banks from New South Wales by Governor Philip. It is' nearly allied to Melaleuca fuaveolens of Gxrtner, tab. 35, with which its inflorefcence and fructification almoft entirely agree, but the leaves of that are much broader and elliptical. Thofe of M. laurina have a great refemblance to the Daplone laureola. Neither is this fpecies at all aromatic, which the other thould feem by its name to be., M, fuaveolens comes from the hotter parts of New. Holland, near Endeavour river.
4. M. Aypbe'oides, foliis alternis ovatis mucronato-pungentibus multinerviis, floribus lateralibus, dentibus calycinis ftriatis mucronatis.
Gathered near Poit Jackfon by Mr. David Burton. It lias alto$\mathrm{Nn}_{2}$
gether
gether the habit of a fyphelia. The leaves are thick-fet, twifted, harih, pungent and ftriated, exactly as in feveral of that genus, and very flightly aromatic, fo that it could hardly be taken for one of the Myrti, except by the fructification.-The flowers are white, furrounding the lower part of the youngeft branches in very fhort clufters. Calyx downy, with erect, rigid, fpinous, ftriated, permanent tecth. Petals fmooth, membranous. Stamina twice as long as the caly $\dot{x}$.
5. M. ericifolia, foliis fparfis oppofitifve linearibus enerviis fubrecurvis muticis, floribus lateralibus apicem verfus ramulorum confertis.

The dried leaves of this fpecies tafte ftrongly of coriander feeds. I have not feen it growing. Its flowers are white, growing in fhort clufters round the branches, as in the following, but not guite fo near the top. Its leaves differ widely from that fpecies, being much fmaller, not pungent nor rigid, but a little recurved. The young hark is of a filvery white. I have not feen the fruit.
6. M. nodofa, foliis fparfis linearibus mucronato-pungentibus rectis, floribus apicem verfus ramulorum glomeratis. Metrofideros nodofa. Gartn. Sem. v. I. 172. t. 34.f. 6.

The leaves are numerous, fcarcely an inch long, very narrow, though broader than thofe of M. ericifolia, ftiff, and tharp pointed. Flowers fmall, whitifh, cluttered round the tops of the youngeft branches, fo as to appear like little capitula; but after flowering the branch is protruded beyond them, and the ripening capfules remain invefting it in an annular manner. The figure of Gærtner reprefents them in their moft advanced ftate, apparently bleached by expofure
expofure to the air. I have confulted his fpecimens, and find no reafon to doubt their being the fame as minc.
7. M. armilluris, foliis fparfis linearibus mucronatis apice recurvis, floribus lateralibus, filamentis longiffimis linearibus apice radiato-multifidis.
Metrofideros armillaris. Guertn. Sem. v. 1. 171. t. 34.f.5.
This has much the habit of a Diofina, in the leaves efpecially, which, in a garden fpecimen with which I was favoured from Mr. Robertfon's at Stockwell, are very diftinctly marked with a row of refinous fpots on each fide the mid-rib at the back, but thefe are lefs vifible in the wild plant. The flowers are white, cluftered about the lower part of the branches, in the form of a long fipike. The footftalk or claw of the united filaments is very long before it branches off, even thrice the length of the petals.
8. M. genijififolia, foliis fparfis lanceolatis mucronatis trinerviis multipunctatis, ramulis floriferis terminalibus laxis, filamentis apice radiato-multifidis.
Sent from Port Jackfon by Mr. David Burton. It is in fome refpects like M. nodofa, but the leaves are lanceolate rather than linear, not above half fo long as in that fpecies, nor fo rigid andpungent. The branches terminate in loofe fpikes, from the top of which the branch is at length continued, as in the other fpecies. The flowers are feffile, in alternate pairs, white. Claw of the ftamina twice as long as the petals before the filaments branch off.
9. M. linariifolia, foliis oppofitis lineari-lanceolatis trinerviis fubtus multipunctatis, ramulis floriferis terminalibus laxis, filamentis pinnatis.

This, we are told by Mr. White, is a large tree, the bark of which is very thick and fpongy, ferving the purpofe of tinder. Thic branches are clothed with tapering glaucous leaves, thrice as long as in the laft.fpecies, and from the fummits fpring feveral young branches, fet with a feries of oppofite feffile folitary white flowers, (not, as in that, in pairs ranged alternately), beyond which the branch is foon protruded. The moft effential character however of this fpecies confifts in the filaments, which are very long, being pinnated, or ranged with ftamina on each fide, more or lefs regularly, from near the bafe to the fummit. The leaves have a nut-meg-like flavour.
10. M. thymifolia, foliis oppofitis elliptico-lanceolatis enerviis, ramulis floriferis lateralibus breviffimis paucifloris, filamentis medium ufque ramofis.
Mr. Fairbairn has prefented flowering fpecimens of this fpecies to the Linnæan Society from Chelfea garden. The flowers are purple, ranged along the branches of a year or two old, in little fhort oppofite fpikes; which however foon prove to be real branches by the leaves thooting out at their ends, this lateral mode of inflorefcence being common to almoft the whole genus, M. laurina and fuaveolens only having axillary branching flower-ftalks, nor have I yet feen a Melaleuca with terminal flowers.

The teeth of the calyx in M. thymifolia are permanent, and the whole of that part, as well as the back of the leaves, abounds with a fragrant effential oil, lodged in pellucid prominent dots.
11. M. bypericifolia, foliis oppofitis elliptico-oblongis uninerviis, floribus confertis, filamentis longiffimis linearibus apice radiato-multifidis.

The moft beautiful of the genus. It grows in fwampy ground, and is found like all I have now defcribed, except the firt fpecies, in New South Wales. M. bypericifolia is plentiful in the Englifh gardens, and was generally taken for an Hypericum, till it lately produced, in feveral collections near London, its elegant flowers. Thefe grow in a cylindrical form round the branches, and have fome refemblance to thofe of my Metrofideros lanceolata (commonly called cilrina), occafioned by the radiated crimfon filaments projecting in every direction. The claws of thofe filaments are very long, linear, and of a dull yellowih hue like the petals.

## 7. MYRTUS Linn.-Guertn. Sem. t. $3^{38}$. Juff. Gen. $3^{2} 4$.

Icosandria Monogynia.
Cisar. Gen. Caljx 5 -fidus, fuperus. Petala 5. Bacca bivel tri-locularis. Semina plurima, gibba.
Few genera are more confufed in the works of Linnæus than Myrtus. The above characters will ferve to define all that properly belong to this genus, of which I have received from New South Wales the following two fpecies only.

1. Myrtus tenuifolia, pedunculis axillaribus folitariis unifloris, foliis linearibus mucronulatis.

An elegant little fhrub which has not yet appeared in the gardens. The leaves are oppofite, fomewhat more than an inch in length, and about a line in breadth, flightly revolute, downy beneath. Flower-flalks filky, fhorter than the leaves, each bearing a fmall white flower, often tinged externally with red, and not uslike the common myrtle bloffom, though fcarcely half fo large. The germen is very filky. Calyx nearly fmooth. Petals downy. The ripe fruit I have not feen, but from an examination of the germen, and every part of the flower, I think there can be no doubt of the genus.
2. M. trinervia, pedunculis axillaribus trifloris, foliis ovatis acuminatis trinerviis fubtus tomentofis.

This is alfo a franger to our gardens. The leaves are large and handfome, oppofite, ovate pointed, downy beneath, with three ftrong nerves, as in thofe of Blakea. Flowers fimall, generally three together, on fhort, hairy, forked, axillary flower-ftalks. Although the teeth of the calyx, and the petals alfo, are generally but four, it is a true Myrtus, and not an Eugenia, the fruit being a berry with many fhining gibbous curved feeds. It has but one cell when ripe, but the germen appears to be divided into two or three cells.

> 8. EUGENIA Linn.- Jufl. Gen. $3^{24}$. Syzygium, Gartn. vol. I. 166. t. 33.f. .

Char. Gen. Calyx 4-fidus, fuperus. Petala 4. Bacsa unilocularis, monofperma.

1. EUGENIA
> r. Eugenia elliplica, foliis ellipticis acuminatis, floribus paniculatis, calyce repando, bacca globofa.

A tree or fhrub of New South Wales, with round dichotomous leafy branches. The leaves are oppofite, on fhort foot-ftalks, clliptical, pointed at both ends, entire, a little revolute, fmooth, with one rib and many parallel fide veins. Panicles about the fummits of the branches, axillary and terminal, erect, confifting of numerous, oppofite, fmooth, branched and forked ftalks, without bractece. Flowers fmall. Calyx clavate, its margin waved, but not toothed. Petals four, white, very minute and fugacious. Stamina numerous. Style fhort, with a fimple figma. Berry the fize of a large pea, globular, white, crowned with the calyx, and confifting of a thick pulpy coat, invefting a folitary feed. The leaves are full of refinous fpots, and the calyx abounds with a fragrant effential oil.

No plant in the order has given me fo much trouble, to determine its genus, as this. It undoubtedly belongs to the Syzyrgium of Gærtner, tab. 3j, which is to be diftinguifhed from Eugenia only by having a bacca with a fingle feed, inftead of a drupa. Gæerner indeed has not told us exactly what he underitood by Eugenia, nor has he figured any thing under that name; but I prefume he meant either the original Eugenia unifora of Micheli, or the E. Iambos. I have examined ripe fruits of both thefe, and the young germen of the former of them, which has two cells, with the rudinients of a feed in each. When the fruit is ripe, it in both fpecies confifts of one large feed, clothed with a very thin fhell or fkin, without any fiffure or feam, and the whole enveloped in a firm flefhy pulp. In my Eugenia elliptica juft defcribed, the pulp is immediately attached to the feed itfelf, as Gærtner defcribes his Syzygium. I think however with Jufficu, that the two genera may be fafely united; for we Vol. III.
find
find another circumftance, mentioned by Gærtner as difcriminating them, the two cells in the germen of Syzvgium, does not hold good, being alfo to be found in Eugenia. I beg leave here to confider as the true Eugenia that which Micheli firft called fo, and which ftands in the latter editions of Linıæus in three different places, being his Eusenia unifora, Myrtus brafiliana, and Plinia pedunculata, and there is no doubt of its according exactly in generic characters with Eugenia Iambos. What really conftitutes the genus of Pimia is very doubtful, Plumier's figures, and tire deferiptions of other authors taken from them, being a mals of inextricable contufion; but if thefe figures mean any thing, they cannot accord with our Eugenia, nor indeed do they refemble it, except in the pulpy fruit being furrowed, fomewhat (but not exactly) like that of Eugenia unifora. I am aware however that the opinion of Linnæus in the Supplententum Plantarum is here againft me, as well as that of my accurate friend Mr. Dryander in the Hortus Kewenfis. If Plumier's original feecies of Plinia should ever be found, it will remove the doubt. In the mean time, one of the few points of which we are certain is, that if the common Eugenia uniflora be not a Plinia, it muft conftitute the real gerrus of Eugenia, whatever the other plants may be that are now arranged under that name; and if it be a Plinia, Eugenia Iambos is one likewife.
9. EUCALYPTUS. L'Heritier Sert. Angl. t. 20. Ait. Hort. Kew. v. 2. 157. Bot. of New Holl. t. 13.

Char. Gen, Caly, fuperus, perfiftens, truncatus, ante anthefin tectus operculo integerrimo, deciduo. Corolla nulla. Capfula quadrilocularis, apice dehifcens, polyfperma.

There

There is not a more natural genus in the whole Linnæan fyftem than this. It is clearly characterized at firft fight by the fingular operculum which clofes the calyx, and covers up the ftamina and flyle till they arrive at maturity. In this refpect it agrees with the Calyptrantbes of Dr. Swartz, but differs from that genus in having a capfule, not a berry.

All the fpecies of Eucalyptus hitherto difcovered come from New Holland. Gæitner being unacquainted with the peculiar ftructure of their flower, confounded fome of them with Metrcfideros. They agree fo much with one another in habit and leaves, as to be impoffible to difcriminate, except by their inflorefcence, and the form of their opercula. I have already characterized fome of them in the Botany of New Hollund, p. 39 to 44; but having fince become acquainted with many more, it is neceflary to revife the whole, and contraft their fpecific characters.

The leaves of all are entire, lanceolate, rarely ovate, more or lefs oblique or unequal at the bafe; flowers either in umbels or capitula; the former of which are cither folitary or panicled, lateral or terminal ; the latter always folitary and lateral. The genus is conveniently divided into two fections, in one of which the cover of the flower is conical, in the other hemifpherical.

## * Operculo conico.

I. Eucallyptus robuffa, operculo conico medio conftricto calyce latiori, umbellis lateralibus terminalibufque, foliis ovatis.

## E. robufta. Bot. of New Holland, 40. t. 13.

This is called the brown gum tree, or New Holland Mahogany, its wood being red, hard and heavy, in fome degree anfwering the
purpofes of the Wcft Indian mahogany. Its leaves are broader than in any other fpecies that has come to my knowledge, and the flowers larger, except only thofe of E. corymbofa.
2. E. pilularis, operculo conico medio conftricto longitudine calycis, umbellis lateralibus, fructu globofo, foliis linearilanceolatis.

The leaves are much narrower than in the preceding, and the flowers not half fo large; neither is their cover, as in that, more in diameter than the calyx. The fruit is globofe. I fufpect that of E. robufta to be turbinate with a reflexed margin, but I have feen it only half ripe.
3. E. tereticornis, operculo conico tereti læviffimo membranacea calyce latiori triploque longiore, umbellis lateralibus folitariis.
E. tereticornis. Bot. of New Holland, 41.

Remarkable for its long, very fmooth, membranous operculum, which burfts juft above the bafe, leaving the lower part like a ring fticking for fome time to the calyx. The leaves are lanceolate and oblique.
4. E. refinifera, operculo conico tereti coriaceo calyce duplo Iongiori, umbellis lateralibus folitariis.
E. refinifera. White's Voyage, 231. tab.

Metrofideros gummifera. Gartn. Sem. v. 1. 170. t. 34.f. . .
*At firt fight this nearly refembles the laft; but on accurate examination the operculum is found only twice the length of the calyx,
and barely of the fame diameter with it, not broader. It is moreover not fo fmooth, nor of the membranous texture of the tereticornis, but thick and leathery as in the other fpecies, feparating entirely from the bafe.

Fic. $g$ in Mr. White's plate we now know to be a difeafed flower. not an impregnated one.
5. E. capitellata, operculo conico obtufiufculo calyceque angulofo fubancipiti, capitulis lateralibus folitariis, fructu globofo, foliis ovato-lanceolatis.
E. capitellata. Bot. of Nerv Holland, 42 .

Fruit, White's Voy. 226. tab. fig. a.
This effentially differs from all the preceding, in bearing itsflowers in capitula, or little heads, (that is, without partial flowerftalks) inftead of umbels. The cover is not more than equal to the calyx in length, angular like that part, and compreffed at the fummit. The leaves ovato-lanceolate, rigid, oblique.
6. E. faligna, operculo conico acuto calyceque angulofo fubancipiti, capitulis lateralibus folitariis, fructu turbinato, foliis lineari-lanceolatis.

The leaves are narrower and lefs coriaceous than in moft of the fpecies. The little heads of flowers grow on fhortifh flower-ftalks, one from the bofom of each leaf. The flowers are fmaller than in any of the others. Their covers acute, the length of the calyx. Fruit turbinate with a flightly recurved margir, and crowned with the pyramidal permanent bafe of the ftyle.

## * * Operculo bemijpbarico.

7. E. botryoides, operculo hemifphærico fubmutico, capitulis lateralibus folitariis, pedunculis cuneatis compreffis, fructu turbinato.

This, like the two preceding, bears its flowers in folitary capitula, but is diftinguifhed from them by its broad hemifpherical opercula, with fcarcely any point at their fummit, which, from the cluttering together of the flowers, look like bunches of fome kind of berries. The common flower-ftalks are flat, and very broad, efpecially at the top. The leaves lanceolate, oblique.
8. E. bamafonna, operculo hemifphærico depreffo mucromulato, umbellis Iateralibus terminalibufque; pedunculis compreffis, ramulis angulatis, fructu fubglobofo.

The leaves are coriaceous, lanceolate, terminating in a long linear point. Flowers in umbels, not capitula, their covers depreffed at the top, but fuddenly terminating in a little point. Fruit globofe, cut off at the fummit, its orifice furrounded by a broad deep-red border. This fpecies has a great affinity with the Lepiofpermunn umbellatum of Gærtner, but I dare not affert it to be the fame.
9. E. piperita, operculo hemifphærico mucronulato, umbellis lateralibus fubpaniculatis folitariifve; pedunculis compreffis, ramulis angulatis.
E. piperita. White's Vojage, 226. tab. leaves only. Bot. of Nere Hollund, 42.

Very difinct and different in appearance from the laft, though their
their fpecific characters are very fimilar. The leaves of E. piperita are nearly ovate, though oblique. Flowers fmaller than thofe of the preceding, and fituated all in great numbers about the lower, part of the branches, not near the top, a few of the umbels only being folitary, the ref uniting to form feveral panicles or corymbi.

Io. E. obliqua, operculo hemifphærico mucronulato, umbellis lateralibus folitariis; pedunculis ramulifque teretibus. E. obliqua. Ait. Hort. Kerv. v. 2. 157. L'Herit. Sert. t. 20. Bot. of New Holland, 43 .

A native of the warmer parts of New Holland. It is the only fpecics here defcribed which we have not received from Port Jackfon. The round branches and flower-ftalks diftinguifh it from the laft, to which it is moft nearly allied.
II. E. corymbofa, operculo hemifphærico mucronulato, calyce tereti, umbellis corymbofo-paniculatis terminalibus.
E. corymbofa. Bot. of Nerv Holland, 43 .

The flowers are large and handfome, forming magnificent terminal panicled clufters of umbels, by which this fpecics is readily diftinguifhed. Leaves lanceolate, coriaceous. Fruit turbinate, the permanent calyx forming a very high urceolate border, the ftyle remaining in the centre of the cavity.

A fine plant of this kind is in the collection of Meffrs. Lee and Kennedy, but has not yet flowered.
12. E. paniculata, operculo hemifphærico fubmutico, calyce angulofo, umbellis fubpaniculatis terminalibus.
This differs from the laft in its angular calyx and lefs pointed
cperculum, as well as in being finaller in all its parts. The umbels do not form fo confiderable a compound clufter or corymbus, but are collected about the tops of the branches into a fmall panicle, the lowermoft of them being axillary.

My fecimens were gathered at Port Jackfon by Mr. David Burton, and I received them from Sir Jofeph Banks's herbarium.

Of all thefe twelve fpecies of Eucalyptus, I am not certain of any more being in the gardens than the corymbofa, obliqua, and piperita. The latter is very common, and may be known by its fmell, refembling that of peppermint:- There are however feveral New Holland fhrubs in the collections about London, which I fufpect to belong to the fame genus; but having never feen their fructification, I cannot afcertain them.

